

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Canceled)

2. (Canceled)

3. (Canceled)

4. (Canceled)

5. (Canceled)

6. (Previously Presented) A surface discharge processing apparatus comprising:

a wire electrode which generates an electric discharge between said wire electrode and a workpiece thereby forming a surface reforming layer on a surface of said workpiece; and

a wire electrode feeder which feeds said wire electrode to said workpiece during surface discharge processing,

wherein said wire electrode is composed of a core wire made of ductile material, and a surface discharge processing material made of a surface reforming material or a raw material therefore adhered to said core wire, wherein a recess is formed in said core wire, and said surface discharge processing material is adhered to the recess.

7. (Canceled)

8. (Currently Amended) The surface discharge processing apparatus according to claim ~~[[8]]~~ 6, wherein the recess formed in said core wire is spiral in shape.

9. (Previously Presented) The surface discharge processing apparatus according to claim 6, wherein the surface discharge processing apparatus operates under the control of a processing program which controls wire discharge processing employed in a preparatory step of surface discharge processing.

10. (Currently Amended) A surface discharge processing apparatus which generates an electric discharge between a surface discharge processing electrode and a workpiece thereby forming a surface reforming layer on a surface of said workpiece, said surface discharge processing apparatus comprising:

a first wire electrode for removal processing by electric discharge;

a second wire electrode for surface discharge processing composed of a core wire made of ductile material, and a surface discharge processing material made of a surface reforming material or a raw material therefore adhered to said core wire, wherein a recess is formed in said core wire, and said surface discharge processing material is adhered to the recess;

a wire electrode feeder which feeds said first wire electrode and second wire electrode to said workpiece during the processing; and

a wire electrode changeover unit which can select said first wire electrode when removal processing is to be performed or select said second wire electrode when surface discharge processing is to be performed.

11. (Canceled)

12. (Canceled)

13. (Canceled)